

Comparisons of Job Characteristics

Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

Associated Occupation: Pipelayers (47-2151)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

Associated Occupation: Pipelayers (47-2151)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	8.1	17.0	>>	Current knowledge level is likely more than sufficient
Building and Construction	4.0	6.9	16.6	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

Associated Occupation: Pipelayers (47-2151)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	9.2	8.7	0	Current skill level may be sufficient
Operation Monitoring	6.6	9.1	9.6	0	Current skill level may be sufficient
Quality Control Analysis	5.9	8.2	8.7	0	Current skill level may be sufficient
Troubleshooting	4.5	7.5	8.4	>	Skill level is likely sufficient
Repairing	3.4	7.3	8.4	>	Skill level is likely sufficient
Equipment Maintenance	3.5	6.7	7.5	>	Skill level is likely sufficient
Equipment Selection	3.3	6.4	6.0	0	Current skill level may be sufficient
Installation	1.7	3.7	5.5	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

Associated Occupation: Pipelayers (47-2151)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Control Precision	6.6	10.3	11.2	0	Current ability level may be sufficient
Depth Perception	5.3	9.0	8.9	0	Current ability level may be sufficient
Extent Flexibility	4.8	8.5	11.5	>>	Current ability level is likely more than sufficient
Stamina	4.0	6.8	6.7	0	Current ability level may be sufficient
Rate Control	3.8	6.6	5.5	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)

Associated Occupation: Pipelayers (47-2151)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Apply adhesives, caulking, sealants, or coatings	45
Assemble and install pipe sections, fittings, or plumbing fixtures	71
Build or repair structures in construction, repair, or manufacturing setting	54
Cut, shape, fit, or join wood or other construction materials	58
Fabricate, assemble, or disassemble manufactured products by hand	11
Install underground storm, sanitation, or water piping systems	99
Lay out piping systems	99
Move or fit heavy objects	8
Operate power driven pumps	66
Perform safety inspections in construction or resource extraction setting	46
Read blueprints	10
Read specifications	23
Read tape measure	41
Read technical drawings	7
Understand construction specifications	53
Use acetylene welding/cutting torch	54
Use arc welding equipment	62
Use basic plumbing techniques	72
Use building or land use regulations	65
Use combination welding procedures	68
Use hand or power tools	2

Use hazardous materials information	35
Use measuring devices in construction or extraction work	41
Use pipe fitting equipment	80
Use pressure gauges	76
Verify levelness or verticality, using level or plumb bob	72
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 93

Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)
Associated Occupation: Pipelayers (47-2151)

Tools and Technologies	Exclusivity
Aerial lifts	13
Cleaning equipment	11
Compressors	9
Computer printers	2
Computers	1
Content authoring and editing software	1
Dispensing tools	6
Drilling and operation machinery	29
Earth moving machinery	11
Electrical measuring and testing equipment	7
Face and head protection	7
Forming tools	2
Gas analyzers and monitors	10
Holding and clamping tools	3
Indicating and recording instruments	2
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Pneumatic tools	8
Power generators	16
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Pumps	9
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Tool attachments and accessories	12

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.